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NOTICE OF ALLOWANCE AND FEE(S) DUE

35825

7590

06/22/2009

LAW FIRM OF DAN SHIFRIN 6208 Devinney Circle ARVADA, CO 80004 EXAMINER

JEAN GILLES, JUDE

ART UNIT PAPER NUMBER

2443 DATE MAILED: 06/22/2009

APPLICATION N	O. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,229	11/20/2003	James C. Chen	TUC920030144US1	2211

TITLE OF INVENTION: DECREASED RESPONSE TIME FOR PEER-TO-PEER REMOTE COPY WRITE OPERATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/22/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of rands) specifying a new corres	maintenance fees waspondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				(s) Transmittal. Thi	s certif	icate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must
35825 7590 06/22/2009 LAW FIRM OF DAN SHIFRIN 6208 Devinney Circle ARVADA, CO 80004			I he Stat	Cert reby certify that this es Postal Service w	t ificate is Fee(of Mailing or Transis Transmittal is being	
							(Depositor's name)
							(Signature)
	_						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/719,229 TITLE OF INVENTION	11/20/2003 DECREASED RESPO	NSE TIME FOR PEER-T	James C. Chen TO-PEER REMOTE COF	PY WRITE OPERA		C920030144US1	2211
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	09/22/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
JEAN GILI	LES, JUDE	2443	709-212000	-			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a second control of the name	name of a single firm (having as a member a ed attorney or agent) and the names of up to the dattorney or agents. If no name is			
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. 7 and STATE OR C	OUNT	TRY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Co	rporati	on or other private gro	oup entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			D. Payment of Fee(s): (Plean A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depo	rd. Form PTO-2038 7 authorized to char	is atta	ched. required fee(s), any de	
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NOTE: The Issue Fee an	d Publication Fee (if req		d from anyone other than t				ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N	o		
an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is est depending upon the indiverse Chief Information Office	timated to take 12 r vidual case. Any co er. U.S. Patent and '	ninutes mment Traden	to complete, including s on the amount of tire mark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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35825 75	590 06/22/2009		EXAM	INER	
LAW FIRM OF DAN SHIFRIN 6208 Devinney Circle			JEAN GILLES, JUDE		
			ART UNIT PAPER NU		
ARVADA, CO 80	004		2443		
			DATE MAILED: 06/22/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1432 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1432 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/719,229	CHEN ET AL.
Notice of Allowability	Examiner	Art Unit
	JUDE J. JEAN GILLES	2443
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>03/20/2009</u> .		
2. The allowed claim(s) is/are <u>1-35</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:		
 Certified copies of the priority documents have 	e been received.	
Certified copies of the priority documents have	been received in Application No	
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		-948) attached
1) hereto or 2) to Paper No./Mail Date	•	o re, allaeriea
(b) ☐ including changes required by the attached Examiner's		Office action of
Paper No./Mail Date	S Amendment / Comment of in the V	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application
Notice of Preferences Gred (1 10-032) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
2. In Notice of Dialiperson's Latent Diawing Neview (FTO-346)	Paper No./Mail Da	ite .
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amend	ment/Comment
Paper No./Mail Date 4.	8. ⊠ Examiner's Statem	ent of Reasons for Allowance
or biological material	9. 🔲 Other	
/Jude J Jean-Gilles/		
Primary Examiner, Art Unit 2443		

Application/Control Number: 10/719,229 Page 2

Art Unit: 2443

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dan Shifrin, #34,473 on 06/15/2009.

Amendment to the Specifications

2. Please amend the Title as follow:

DECREASED RESPONSE TIME FOR <u>PEER-TO-PEER REMOTE COPY</u> PPRC WRITE OPERATION

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: the closedt prior art of record (Milillo, U.S. Patent No. 6,643,671) does not teach nor suggest in detail "a method for transferring data in a PPRC environment, comprising: pre-allocating at least a first payload buffer in a secondary storage control unit; pre-allocating at least a first data buffer in the secondary storage control unit; issuing a first write command for the transfer of a first block of data from a primary storage control unit to the secondary storage control unit; packaging write control information with a fibre channel protocol (FCP) command within a first extended command descriptor block

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Art Unit: 2443

(CDB); transmitting the first extended CDB from the primary storage control unit to the secondary storage control unit; and transmitting the first block of data from the primary storage control unit to the secondary storage control unit, in combination with all the elements of each independent claim as presented by Applicant. The Claims are allowable in light of the updated search, and enabling portion of the specifications.

The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Allowed Claims

4. Claims 1-35 are allowed.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUDE J. JEAN GILLES whose telephone number is (571)272-3914. The examiner can normally be reached on 7:00-5:00.

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Art Unit: 2443

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger can be reached on (571)272-4170. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jude J Jean-Gilles/

Primary Examiner, Art Unit 2443

June 16, 2009